



# Product Specifications



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## Model SB1047F 21" x 80" Turn-Nado Gearhead Lathe with DRO

### Product Dimensions

Weight..... 6640 lbs.  
Width (side-to-side) x Depth (front-to-back) x Height..... 130-1/4 x 27 x 54-3/4 in.  
Footprint (Length x Width)..... 141-3/4 x 71-3/4 in.

### Shipping Dimensions

Type..... Wood Crate  
Content..... Machine  
Weight..... 5952 lbs.  
Length x Width x Height..... 141 x 45 x 74 in.

### Electrical

Power Requirement..... 440V, 3-Phase, 60 Hz  
Full-Load Current Rating..... 19.23A  
Minimum Circuit Size..... 30A  
Connection Type..... Permanent (Hardwire)  
Switch Type..... Control Panel w/Magnetic Switch Protection

### Motors

#### Main

Horsepower..... 15 HP  
Phase..... 3-Phase  
Amps..... 19A  
Speed..... 1725 RPM  
Type..... TEFC Induction  
Power Transfer ..... V-Belt Drive  
Bearings..... Shielded & Permanently Lubricated  
Centrifugal Switch/Contacts Type..... N/A

#### Coolant Pump

Horsepower..... 1/8 HP  
Phase..... 3-Phase  
Amps..... 0.23A  
Speed..... 3450 RPM  
Type..... TEFC Induction (Class F)  
Power Transfer ..... Direct Drive  
Bearings..... Shielded & Permanently Lubricated  
Centrifugal Switch/Contacts Type..... N/A

## Main Specifications

### Operation Info

Swing Over Bed.....	21 in.
Distance Between Centers.....	80 in.
Max Weight Between Centers.....	1430 lbs.
Swing Over Cross Slide.....	14 in.
Swing Over Saddle.....	21 in.
Swing Over Gap.....	31.10 in.
Maximum Tool Bit Size.....	1 in.
Compound Travel.....	5.39 in.
Carriage Travel.....	78 in.
Cross Slide Travel.....	11 in.

### Headstock Info

Spindle Bore.....	3.15 in.
Spindle Taper.....	MT#7
Number of Spindle Speeds.....	16
Spindle Speeds.....	20 – 1600 RPM
Spindle Type.....	D1-8 Camlock
Spindle Bearings.....	Tapered Roller
Spindle Length.....	26-7/8 in.
Spindle Length with 3-Jaw Chuck.....	34-1/2 in.
Spindle Length with 4-Jaw Chuck.....	32-3/8 in.
Spindle Length with Faceplate.....	29-1/8 in.

### Tailstock Info

Tailstock Quill Travel.....	6-1/2 in.
Tailstock Taper.....	MT#5
Tailstock Barrel Diameter.....	3 in.

### Threading Info

Number of Longitudinal Feeds.....	15
Range of Longitudinal Feeds.....	0.0015 – 0.0400 in./rev.
Number of Cross Feeds.....	15
Range of Cross Feeds.....	0.00075 – 0.02000 in./rev.
Number of Inch Threads.....	38
Range of Inch Threads.....	2 – 72 TPI
Number of Metric Threads.....	40
Range of Metric Threads.....	0.4 – 14.0 mm
Number of Modular Pitches.....	18
Range of Modular Pitches.....	0.3 – 3.5 MP
Number of Diametral Pitches.....	21
Range of Diametral Pitches.....	8 – 44 DP

### Dimensions

Bed Width.....	13.58 in.
Carriage Leadscrew Diameter.....	1-3/8 in.
Leadscrew TPI.....	4 TPI
Carriage Leadscrew Length.....	105 in.
Steady Rest Capacity.....	5/8 – 7-1/16 in.
Follow Rest Capacity.....	5/8 – 5-1/8 in.
Faceplate Size.....	14 in.
Feed Rod Diameter.....	15/16 in.
Floor to Center Height.....	46.65 in.
Height With Leveling Jacks.....	48 in.

## Construction

Base.....	Cast Iron
Headstock.....	Cast Iron
End Gears.....	Flame-Hardened Steel
Bed.....	Induction-Hardened, Precision-Ground Meehanite Cast Iron
Body.....	Cast Iron
Stand.....	Cast Iron
Paint Type/Finish.....	Urethane

## Fluid Capacities

Headstock Capacity.....	15.9 qt.
Headstock Fluid Type.....	ISO 32 (eg. Grizzly T23963, Mobile DTE Light)
Gearbox Capacity.....	3.2 qt.
Gearbox Fluid Type.....	ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
Apron Capacity.....	2.1 qt.
Apron Fluid Type.....	ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
Coolant Capacity.....	25.4 qt.

## Other

Country of Origin .....	Taiwan
Warranty .....	1 Year
Approximate Assembly & Setup Time .....	1 Hour
Serial Number Location .....	ID Label on Rear Side of Left Stand
Sound Rating .....	76 dB
ISO 9001 Factory .....	No
Certified by a Nationally Recognized Testing Laboratory (NRTL) .....	No

## Features

- Allen Bradley Electrical Components
- Signature South Bend 3 V-Way Bed
- Safety Chuck Guard with Micro-Switch Shut-Off
- Meehanite Castings with Induction-Hardened Ways
- Halogen Work Light
- 4-Way Tool Post
- Complete Coolant System
- Micrometer Carriage Stop
- Threading Dial Indicator
- Full Length Splash Guard
- Front Removable Sliding Chip Tray
- Completely Enclosed Universal Gearbox for Cutting Inch, Metric, Modular and Diametral Pitches
- Jog Button and Emergency Stop
- Headstock Gears Run in an Oil Bath
- Fagor DRO

## Included Accessories

- 12" 3-Jaw Scroll Chuck Mounted to 12" D1-8 Back Plate
- 14" D1-8 4-Jaw Independent Chuck
- 14" Faceplate D1-8
- Follow Rest
- Steady Rest with Ball Bearing Tips
- Two MT#5 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)
- MT#7 to MT#5 Spindle Sleeve
- Eight Leveling Pads
- Service Tools
- Toolbox
- USA-Written Manual